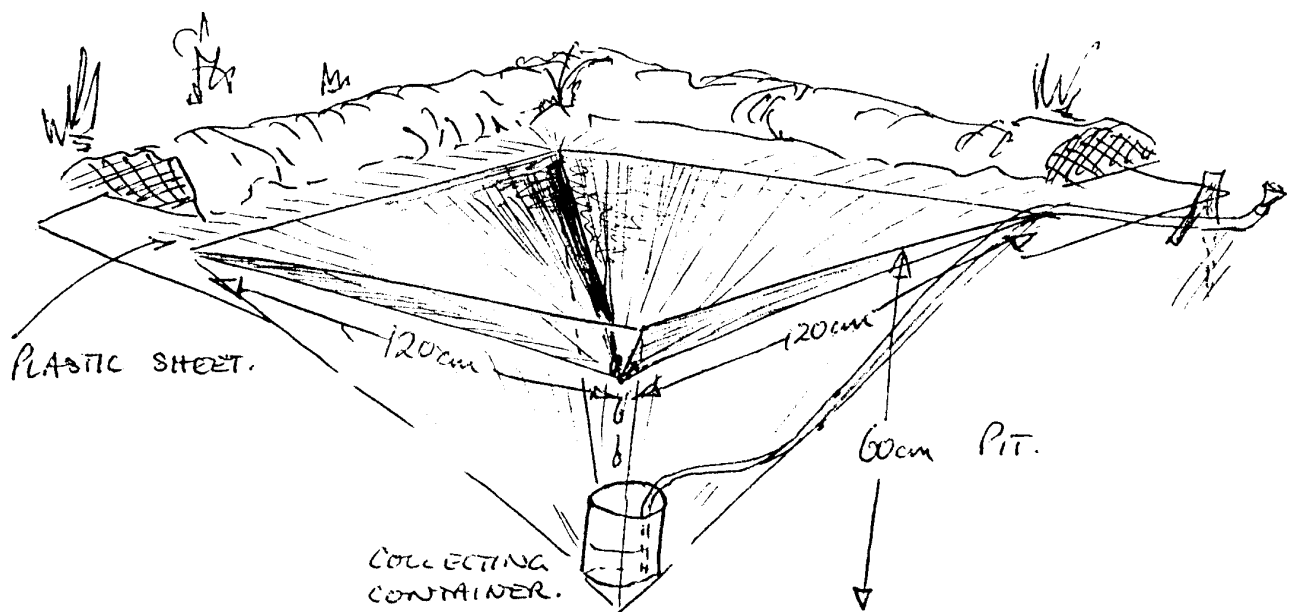


# Solar Still



## Objective

To collect water wither in dry regions or as a means of purifying water where the only available water is undrinkable.

## Design

Consists of a 120cm square hole, about 60cm deep, covered by a 2m<sup>2</sup> sheet of plastic, weighted in the middle with a stone. Below this is a water container. A pipe can be used to facilitate emptying.

## Theory

The solar still works best in hot weather over moist ground or with foliage in the pit. The heat is trapped under the sheet and causes moisture to rise. The water condenses from this vapour and runs down the sheet and drips off the centre below the stone and into the container. Black plastic captures the most heat.

## Advantages

Pure water where it is otherwise dirty or absent. Can also be used to distill fresh water from salt water.

## Disadvantages

The distilled water can taste unpleasant, but it's safe and clean.

